

I CLAIM:

1. An ergonomic paint brush handle comprising:

a) a head section having a shoulder end, a brush end, a brush edge and a shoulder surface, said brush end of said head section for receiving a brush head, and said head section being oriented substantially along a brush plane;

b) a longitudinal handle section oriented substantially along a handle axis, said handle axis and said brush plane are substantially parallel to each other and disposed at an offset distance;

c) a transition means for rigidly connecting said shoulder end of said head section to one end of said handle section; and

d) wherein said ergonomic handle for gripping by placing a fore finger along said brush edge, and a thumb on said shoulder surface and said handle section lying in the web of a hand between the fore finger and the thumb, such that when said handle is gripped in a hand said transition section provides relief for the web of a hand.

2. The ergonomic paint brush handle claimed in claim 1 wherein said transition means comprises:

a transition section rigidly attached at one end to said shoulder end of said head section, and at the other end to one end of said handle section, said transition section being oriented longitudinally along a transition axis which is disposed at an angle  $\theta$  relative to said brush plane; such that when said handle is gripped in a hand said transition section provides relief for the web of a hand.

3. The ergonomic paint brush handle claimed in claim 2 wherein said transition section is dimensioned such that the off set distance falls within the range  $\frac{1}{2}$  a forefinger thickness to 3 times a forefinger thickness. ?

4. The ergonomic paint brush handle claimed in claim 3 wherein said angle theta falls within the range 30 degrees to 60 degrees.

5. The ergonomic paint brush handle claimed in claim 2 wherein the angle theta and the transition section length are selected such that there is just enough relief for the web of the hand such that the fore finger phalanges and meta carpal bones can align and lie substantially along the brush plane.

6. The ergonomic paint brush handle claimed in claim 2 wherein said transition section and said handle section project centrally from said head section such that said ergonomic handle is symmetrical about a handle plane.

7. The ergonomic paint brush handle claimed in claim 6 wherein said handle section is rod shaped and lying substantially longitudinally along said handle axis.

8. The ergonomic paint brush handle claimed in claim 2, wherein said ergonomic handle is oriented for gripping by a right hand.

9. The ergonomic paint brush handle claimed in claim 2, wherein said ergonomic handle is oriented for gripping by a left hand.

10. The ergonomic paint brush handle claimed in claim 2 wherein said head section is planar proximate said brush end and tapers toward said shoulder end.

SUB 112  
BI ~~user~~  
dependent

10 112  
The following is a list of the names of the persons who have been named in the claims of the patent application as being the inventors of the invention.

11. The ergonomic paint brush handle claimed in claim 10 wherein said transition section is dimensioned to conform to the shoulder end dimensions at one end and the handle section dimensions at the other end thereby providing a smooth transition between the head section and the handle section.

5

12. The ergonomic paint brush handle claimed in claim 11 wherein said handle section is rod shaped and lying longitudinally along said handle axis.

13. The ergonomic paint brush handle claimed in claim 12 wherein said handle section being dimensioned to have a thickness falling within the range  $\frac{1}{2}$  a forefinger thickness of to 3 times a forefinger thickness.

14. The ergonomic paint brush handle claimed in claim 2 further including a pivot proximate said brush end of said head section such that when said ergonomic handle together with a brush head is laid on a flat surface parallel to a brush plane said bristles are elevated above said flat surface.

15

15. The ergonomic paint brush handle claimed in claim 14 further weighted to ensure the bristles are elevated above said flat surface.

20

16. In combination a paint brush comprising an ergonomic paint brush handle and a brush head comprising:

a) a brush head;

25

b) a head section including a shoulder end, a brush end, a brush edge and a shoulder surface, said brush end of said head section is dimensioned to receive said brush

head, and said brush head together with said head section being oriented substantially along a brush plane;

5 c) a longitudinal handle section oriented substantially along a handle axis, said handle axis and said brush plane are substantially parallel to each other and disposed at an offset distance;

d) a transition means for rigidly connecting said shoulder end of said head section to one end of said handle section; and

10 e) wherein said ergonomic handle for gripping by placing a fore finger along said brush edge, and a thumb on said shoulder surface and said handle section lying in the web of a hand between the fore finger and the thumb, such that when said handle is gripped in a hand said transition section provides relief for the web of a hand;

15 17. The paint brush claimed in claim 16 wherein said transition means comprises: a transition section rigidly attached at one end to said shoulder end of said head section, and at the other end to one end of said handle section, said transition section being oriented longitudinally along a transition axis which is disposed at an angle theta  
20 relative to said brush plane; such that when said handle is gripped in a hand said transition section provides relief for the web of a hand.

25 18. The paint brush claimed in claim 17 wherein said transition section is dimensioned such that the off set distance falls within the range  $\frac{1}{2}$  a forefinger thickness to 3 times a forefinger thickness.

19. The paint brush claimed in claim 18 wherein said angle theta falls

within the range 30 degrees to 60 degrees.

20. The paint brush claimed in claim 19 wherein the angle theta and the transition section length are selected such that there is just enough relief for the web of the hand for the fore finger phalanges and meta carpal bones to align and lie substantially along the brush plane.

5

300p4us.pat

Add  
A1